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Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MKN/QC/2021-22

Date : 06.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-2016

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**

Agency : **Sri. Mahesh KN,** Contractor, Bangalore.

Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10

Date of Testing : 06.12.2021

Material : Sand

Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	5.93	5.93	94.1	90-100
2.36	148	9.87	15.80	84.2	75-100
1.18	259	17.27	33.07	66.9	55-90
600 Micron	254	16.93	50.00	50.0	35-59
300 Micron	365	24.33	74.33	25.7	8-30
150 Micron	354	23.60	97.93	2.1	0-10

Information is furnished by the Agency

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Job No.: CECTC/MKN/QC/2021-22

Date : 06.12.2021

TEST REPORT ON COARSE AGGREGATES
IS 383-2016

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**

Agency : **Sri. Mahesh KN,** Contractor, Bangalore.

Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10

Date of Testing : 06.12.2021

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	596	3.97	3.97	96.03	95-100
20	4325	28.83	32.81	67.19	30-70
10	6249	41.66	74.47	25.53	10-35
4.75	3389	22.59	97.06	2.94	0-5

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Job No.: CECTC/MKN/QC/2021-22

Date : 06.12.2021

TEST REPORT ON COARSE AGGREGATES
IS 383-2016

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**

Agency : **Sri. Mahesh KN,** Contractor, Bangalore.

Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10

Date of Testing : 06.12.2021

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	178	3.6	3.6	96.4	90-100
10	2798	56.0	59.5	40.5	25-55
4.75	1896	37.9	97.4	2.6	0-10

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Job No.: CECTC/MKN/QC/2022-23

Date: 26.03.2022

TEST REPORT

CLIENT	:	**Executive Engineer-4,** Lake Division, BBMP, Bangalore.
AGENCY	:	**Sri. Mahesh KN,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
SAMPLE ID	:	Bricks
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.70N/mm^2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	12.70%	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MKN/QC/2021-22

Date: 20.12.2021

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore**

Contractor : **Sri. Mahesh KN,** Contractor, Bangalore.

Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10

Size of Block : 400mm x 150mm x 200 mm

Cross Sectional Area : 80000 mm^2

Test Method & Specification : IS 2185 (Part 1) RA-2020

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	20.12.2021	20.12.2021	412.3	5.15	5.0
2	20.12.2021	20.12.2021	421.5	5.27	
3	20.12.2021	20.12.2021	433.8	5.42	

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Job No.: CECTC/MKN/QC/2021-22

Date: 10.12.2021

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer-4,** Lake Division, BBMP, Bangalore

Agency : **Sri. Mahesh KN,** Contractor, Bangalore.

Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10

Sample Identification : 8mm,10mm, 12mm, 16mm. Fe 500 TMT Bars

Technical Reference : IS 1786:2008 (RA-2018), IS 1608:2005 (RA-2017), IS 1599:1985 (RA-2019)

Date of test: : 10.12.2021

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.399	523	563	17
2	10	0.620	532	574	18
3	12	0.889	541	589	19
4	16	1.585	556	596	20

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.01.2022

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency : **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Location : Labour Quarters- Footing
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516(Part-1/Sec-1):2021
Grade of Concrete : M25
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	07.12.2021	04.01.2022	8.321	658.3	29.26
2	07.12.2021	04.01.2022	8.298	621.2	27.61
3	07.12.2021	04.01.2022	8.301	608.3	27.04

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.01.2022

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency	: **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work	: Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Location	: Labour Quarters- Footing
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M25
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	07.12.2021	04.01.2022	8.326	621.3	27.61
2	07.12.2021	04.01.2022	8.325	632.5	28.11
3	07.12.2021	04.01.2022	8.299	641.2	28.50

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.01.2022

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency : **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Location : Labour Quarters- Footing
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516(Part-1/Sec-1):2021
Grade of Concrete : M25
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	07.12.2021	04.01.2022	8.299	652.3	28.99
2	07.12.2021	04.01.2022	8.302	641.3	28.50
3	07.12.2021	04.01.2022	8.278	602.5	26.78

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Job No.: CECTC/MKN/QC/2021-22

Date: 08.03.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency	: **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work	: Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Location	: Pathway
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M25
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	08.02.2023	08.03.2023	8.326	602.8	26.79
2	08.02.2023	08.03.2023	8.316	635.2	28.23
3	08.02.2023	08.03.2023	8.369	642.8	28.57

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Job No.: CECTC/MKN/QC/2021-22

Date: 08.03.2023

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency : **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Location : Pathway
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516(Part-1/Sec-1):2021
Grade of Concrete : M25
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	08.02.2023	08.03.2023	8.302	621.3	27.61
2	08.02.2023	08.03.2023	8.326	633.2	28.14
3	08.02.2023	08.03.2023	8.364	621.8	27.64

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.02.2022

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency : **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Location : Labour Quarters- Lintel & Roof
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516(Part-1/Sec-1):2021
Grade of Concrete : M25
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	07.01.2022	04.02.2022	8.259	611.2	27.16
2	07.01.2022	04.02.2022	8.236	632.5	28.11
3	07.01.2022	04.02.2022	8.249	641.2	28.50

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.02.2022

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency : **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Location : Labour Quarters- Lintel & Roof
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516(Part-1/Sec-1):2021
Grade of Concrete : M25
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	07.01.2022	04.02.2022	8.279	641.2	28.50
2	07.01.2022	04.02.2022	8.299	652.3	28.99
3	07.01.2022	04.02.2022	8.302	602.3	26.77

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.02.2022

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**
Agency : **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Location : Labour Quarters- Lintel & Roof
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516(Part-1/Sec-1):2021
Grade of Concrete : M25
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	07.01.2022	04.02.2022	8.326	621.3	27.61
2	07.01.2022	04.02.2022	8.279	632.5	28.11
3	07.01.2022	04.02.2022	8.265	641.8	28.52

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Job No.: CECTC/MKN/QC/2021-22

Date: 04.02.2022

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4, Lake Division, BBMP, Bangalore.**

Agency : **Sri. Mahesh KN,** Contractor, Bangalore.

Name of Work : Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Location : Labour Quarters- Lintel & Roof

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516(Part-1/Sec-1):2021

Grade of Concrete : M25

Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm2)
1	07.01.2022	04.02.2022	8.256	652.3	28.99
2	07.01.2022	04.02.2022	8.241	624.3	27.75
3	07.01.2022	04.02.2022	8.236	652.3	28.99

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(ಕೆರೆಗಳು AEE ಘಟಕ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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JOB No: CECTC/MKN/QC/2021-22 Date: 10.02.2022

TEST REPORT FOR EMBANKMENT SOIL

Client	:	**Executive Engineer-4,** Lake Division, BBMP, Bangalore
Agency	:	**Sri. Mahesh KN,** Contractor, Bangalore.
Name of the work	:	Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample / Location	:	Embankment Soil
Date of testing	:	10.02.2022

The results of the test Conducted on the sample is as follows.

Sl. No.	Name of Test	Test as per IS Code	Test Results
1	Determination of water Content-Dry Density Relation using Light Compaction	IS 2720 (Part 7)-1983 RA 2015	MDD = 1.87g/cc OMC = 12.68%
2	Grain size analysis (By wet sieving)	IS 2720(Part -4)1985 RA 2015	Gravel in % = 22.26 Sand in % = 44.88 Silt & clay in % = 32.86

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Job No. CECTC/MKN/QC/2021-22

Date: 27.02.2022

KERB STONE (CORE) TEST REPORT

Client	:	**Executive Engineer-4, Lake Division, BBMP, Bangalore**
Agency	:	**Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work	:	Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
No.of Sample Tested	:	**3**
Date of Testing	:	27.02.2022
Techinical Reference	:	IS:516(Part 4)-RA : 2018
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	60.00	0.299	2537.99	1.20	0.912	26.96	13.73	14.55	13.27	16.59
2	50.00	65.00	0.319	2499.47	1.30	0.923	27.56	14.04	14.88	13.73	17.17
3	50.00	70.00	0.352	2561.03	1.40	0.934	28.63	14.58	15.46	14.44	18.04

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Job No.:CECTC/MKN/QC/2021-22

Date: 19.01.2023

Test Report Of Concrete Pipes

Client	**Executive Engineer-4,** Lake Division, BBMP, Bangalore.
Agency	**Sri. Mahesh KN,** Contractor, Bangalore.
Name of the work	Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Type of Sample	Concrete pipes of Class NP_3
Techinical Reference	**As Per IS-458:2003**
Date of Testing	19.01.2023

Sl no	Internal Diameter in mm	Barrel Wall Thickness in mm	Strength test from three edge bearing test	Permisible value for Strength test from three edge bearing test
			Ultimate Load in KN/m	Ultimate Load in KN/m as per table No.2, IS-458:2003
1	450	75	33.20	32.34
2	450	75	32.98	32.34
3	450	75	33.85	32.34

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Job No.: CECTC/MKN/QC/2021-22

Date : 06.10.2022

TEST REPORT ON CERAMIC TILES

Client	: **Executive Engineer-4,** Lake Division, BBMP, Bangalore.
Contractor	: **Sri. Mahesh KN,** Contractor, Bangalore.
Name of Work	: Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
Sample ID	: Ceramic Tiles-150x150x6
Technical Reference	: IS: 13630 - 2006 - Method of Testing Ceramic Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	: 06.10.2022

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	150x150x6	32.2	31.78	Average 30, Indivisual minimum 28
2	150x150x6	31.8		
3	150x150x6	31.1		
4	150x150x6	32.6		
5	150x150x6	31.2		

Information is furnished by the Client

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Job No.: CECTC/MKN/QC/2021-22 Date: 06.12.2021

TEST REPORT

CLIENT	:	**Executive Engineer-4,** Lake Division, BBMP, Bangalore.
AGENCY	:	**Sri. Mahesh KN,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Gazebo, Watchmen Shed pathway improvement, child play equipment and other development work at Doddabommasandra Lake in Ward No.10
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015 RA-2020
1	a) Initial Setting Time	IS-4031 (Part -5) RA-2019	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) RA-2019	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4) RA-2019	29.00 %	-

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